

## CLAIMS

What is claimed is:

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1. An air pressure measuring system for measuring the pressure of pneumatic tires, comprising:
    - a bracket structure mounted to an inside surface of a wheel assembly;
    - at least one air pressure gauge mounted to the bracket structure; and
    - a pneumatic conduit being in communication with the at least air pressure gauge and a valve stem of a pneumatic tire,wherein the at least one air pressure gauge provides an indication of air pressure of the pneumatic tire to an operator.
  2. The system according to Claim 1, wherein the bracket structure is mounted to the inside surface of the wheel assembly by using adhesive tape.
  3. The system according to Claim 1, further including a strip of reflective material attached to an outer surface of the wheel assembly.
  4. The system according to Claim 3, wherein the reflective material comprises a plurality of micro-prism retroreflective elements.
  5. The system according to Claim 1, wherein the at least one air pressure gauge comprises a Bourdon tube type pressure gauge.
  6. The system according to Claim 1, wherein the at least one air pressure gauge includes a visual indication of the indication of air pressure of the pneumatic tire.
  7. The system according to Claim 1, wherein the at least one air pressure gauge includes a pair of stop posts.
  8. An air pressure measuring system for measuring the pressure of pneumatic tires, comprising:
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a mounting assembly mounted to an inside surface of a wheel assembly;

- 5 at least one air pressure gauge mounted to the mounting assembly; and  
a pneumatic conduit being in communication with the at least air pressure gauge and a valve stem of a pneumatic tire,  
wherein the at least one air pressure gauge provides an indication of air pressure of the pneumatic tire to an operator.

9. The system according to Claim 8, wherein the mounting assembly is mounted to the inside surface of the wheel assembly by using adhesive tape.

10. The system according to Claim 8, further including a strip of reflective material attached to an outer surface of the wheel assembly.

11. The system according to Claim 10, wherein the reflective material comprises a plurality of micro-prism retroreflective elements.

12. The system according to Claim 8, wherein the at least one air pressure gauge comprises a Bourdon tube type pressure gauge.

13. The system according to Claim 8, wherein the at least one air pressure gauge includes a visual indication of the indication of air pressure of the pneumatic tire.

14. The system according to Claim 8, wherein the at least one air pressure gauge includes a pair of stop posts.

15. A method for measuring the pressure of pneumatic tires using an air pressure monitoring system, comprising:

mounting a bracket structure to an inside surface of a wheel assembly;  
mounting at least one air pressure gauge to the bracket structure,  
5 wherein a pneumatic conduit is in communication with the at least air pressure gauge and a valve stem of a pneumatic tire,

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whereby the at least one air pressure gauge provides an indication of air pressure of the pneumatic tire to an operator.

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